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136.0002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stojancic
Serial No.: 10/692,425
Filed: October 23, 2003
For: METHOD AND APPARATUS FOR LONGEST PREFIX MATCHING IN
PROCESSING A FORWARDING INFORMATION DATABASE
Group: 2185
Examiner: Rojas, Midys

Durham, North Carolina
August 3, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATION OF FACSIMILE TRANSMISSION

Sirs:

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax. No. 571-273-8300 on the date set forth below.

1. Restriction Requirement (2 pages)

Marianna Tortorelli

Printed name of person signing



Signature

Date: August 3, 2006

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Response to Restriction Requirement

Sir:

The present response replies to the Restriction Requirement mailed July 3, 2006. That requirement required restriction to one of three inventions categorized in groups as follows:

Group I. Claims 1-8, drawn to a prefix search key apparatus wherein the number of memory banks is determined by at least the number of ordinates within an n-dimension representation, the n-dimension representation defining a coordinate system, each bank associated with one of the ordinates within the n-dimension representation and converting the

Appl. No. «Case__AppSerialNumber»
Amdt. dated August 3, 2006
Reply to Office Action of «OA__DateMailed»

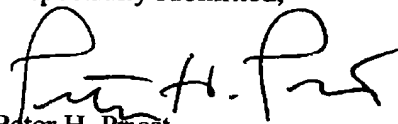
masked key into an n-dimension representation having a plurality of ordinates, classified in class 711, subclasses 5 and 104.

Group II. Claims 9-16, drawn to a prefix search key system wherein a result index multiplexer receives one or more match results and the priority signal, the resulting index multiplexer selecting the match result to output based on the priority signal classified in class 711, subclass 104.

Group III. Claims 17-24, drawn to a method of determining the longest prefix key match in a database wherein the masked key is converted to an n-dimension representation classified in class 711, subclass 104.

Applicants elect with traverse the Group I claims 1-8.

Respectfully submitted,



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